

411ZA/811ZA/611ZA RVH1004ZA/1008ZA/1016ZA Quick Start Guide



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I-Phone & Android (IWatch DVR)

Default Username is Admin

Default Admin Lock password is 123456

**Note: Please see CD included for complete User
manual quick start guide CMS software and
much more**

1 **PACKING**

1. DVR
2. Quick Start
3. IR Remote Control * 16CH: Pressed "DVR1" Button before use
4. Battery
5. CD
6. Hard Disk Mount
7. Screws
8. Power Adaptor
9. Power Cord
10. DB25 Connector (411ZA / 811ZA only)
11. SATA Cord

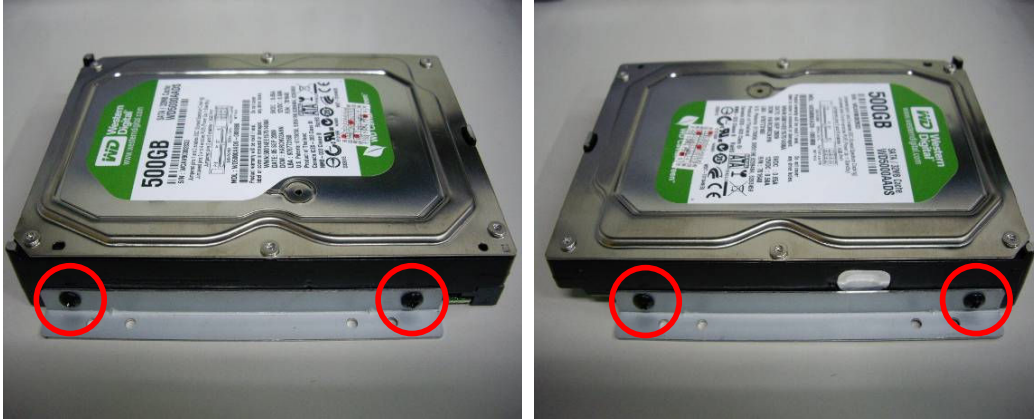
Note: Standard shipping products do not include Hard Drive unless you had Ordered your DVR with Hard Drive.

All Hard Drives if ordered comes preinstalled and ready to use.

2

HARD DISK INSTALATION

Step 1) Fix the HDD to rack mount with the screws as indicated.



Step 2) Place the HDD on the HDD plate and screw it as indicated.



Step 3) Connect the power and the SATA cables as indicated.



Note: After installation, please initialize Hard Disk before starting to record. For more detailed information, please check out User Manual 4-9 System Tools for reference.

3

DVR-RW INSTALATION

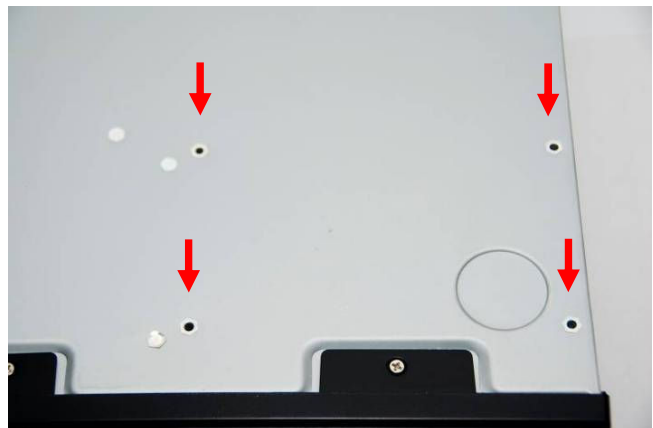
Step 1:
Remove the front cover from DVR.



Step 2:
Put the DVD-RW into the unit as indicated.



Step 3:
Put DVR bottom up, screw to fix the DVD-RW as indicated.

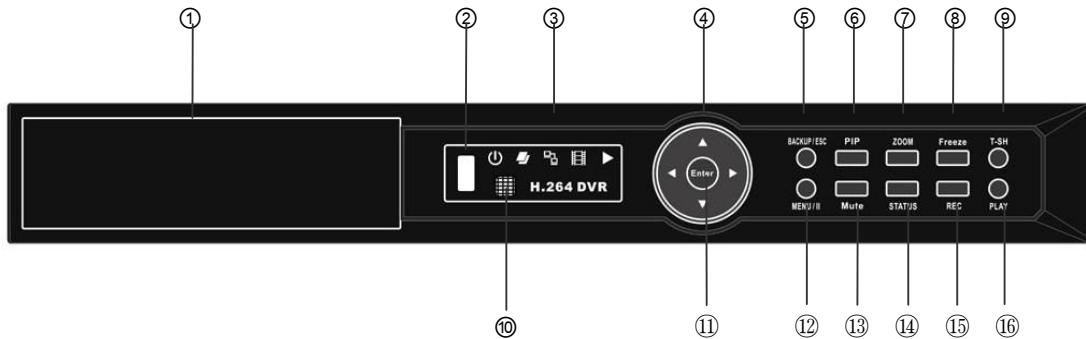


Step 4:
Connect the power and the flat cables as indicated.

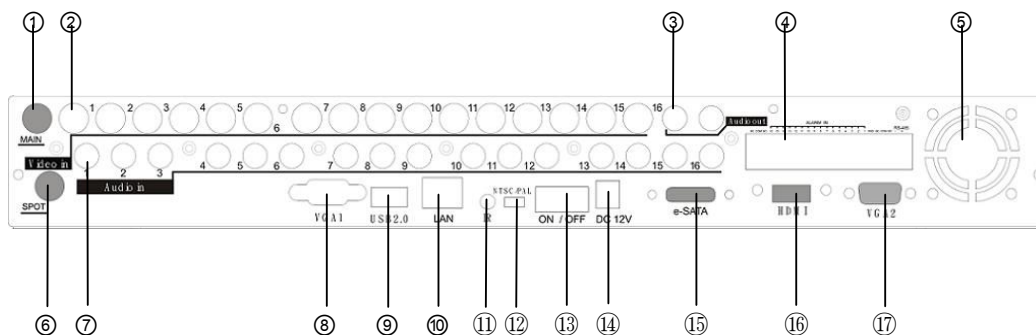


4

FRONT PANEL CONTROLS

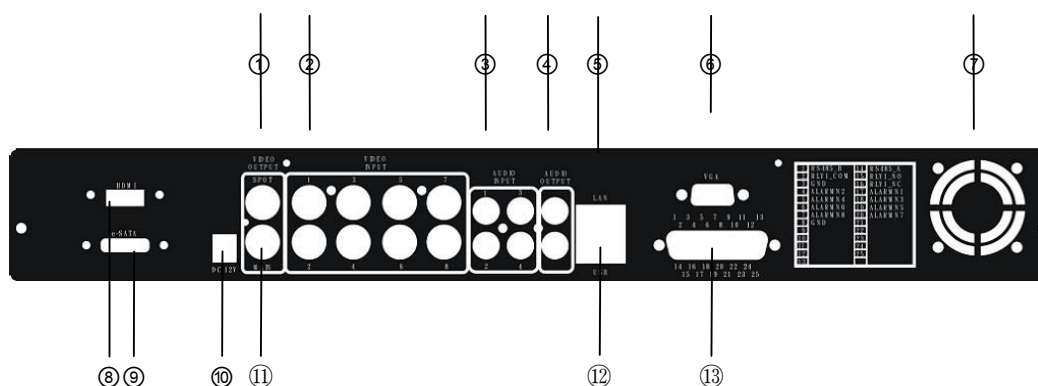


Control Keys	Description
① DVD Writer	Optional DVD-RW backup device.
② USB 2.0 Port	Port for USB external devices (USB flash drive devices use, the mouse behind the back of the USB ports installed)..
③ LED Display (From left to right)	Power: Power is on. HDD: Hard disk is in use. LAN: Connected to the internet (in red): Remote user logged in. REC: Recording. PLAY: Playing back.
④ ▼ / ■	In SETUP mode, press to move cursor down. In PLAYBACK mode, press to stop playing back.
▲ / SLOW	In SETUP mode, press to move cursor up. In PLAYBACK mode, press to slow down.
► / ►►	In SETUP mode, press to increase value. In PLAYBACK mode press to play forwards.
◀ / ◀◀	In SETUP mode, press to reduce value. In PLAYBACK mode, press to play rewind.
⑤ BACKUP/ESC	In LIVE mode, press to display the BACKUP menu. In SETUP mode, press to return to previous page.
⑥ PIP	In LIVE mode, display with picture in picture format.
⑦ ZOOM	In LIVE or PLAYBACK mode, enlarge the display of a channel.
⑧ FREEZE	In LIVE mode, display can be FREEZE.
⑨ T-SRH	Display the search menu.
⑩ IR Sensor	Input sensor for the remote control.
⑪ ENTER/MODE	In SETUP mode, press to enter values. In PLAYBACK mode, switch between full, quad, 9-channel, 16-channel display in order.
⑫ MENU/ II	In LIVE mode, press to display menu. In PLAYBACK mode, press to pause playback.
⑬ MUTE	Enable / Disable Key Tone.
⑭ STATUS	Show DVR Status.
⑮ REC	Start or stop recording.
⑯ PLAY	Play back in normal speed.

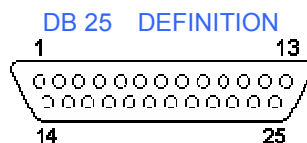
16CH REAR PANEL CONNECTORS

① MAIN monitor	BNC port for the main monitor. You can switch to SPOT monitor by GUI setting.
② VIDEO IN	BNC input ports for cameras, 16 in total.
③ AUDIO OUT	RCA output port for audio signal.
④ EXTERNAL I/O	EXTERNAL I/O port.
⑤ Fan	DC 12V 40mm X 40mm fan.
⑥ SPOT monitor	BNC port to display full screen image of all installed cameras in sequence. (depends on model)
⑦ AUDIO IN	RCA input port for audio signal. 4 ports available for 4CH/8CH. 16 ports available for 16CH.
⑧ VGA1	VGA port.
⑨ USB 2.0 port	USB port. (Device USB Mouse).
⑩ LAN	Network port.
⑪ IR JACK	IR extension cable jack.
⑫ NTSC/PAL	Switch NTSC/PAL Video.
⑬ ON/OFF	Power Switch.
⑭ DC 12V	Socket for a DC 12V input.
⑮ e-SATA	External SATA hard disks port for expanding recording space. (ZA series only)
⑯ HDMI	HDMI port.
⑰ VGA2	VGA port. (depends on model)

8CH REAR PANEL CONNECTORS

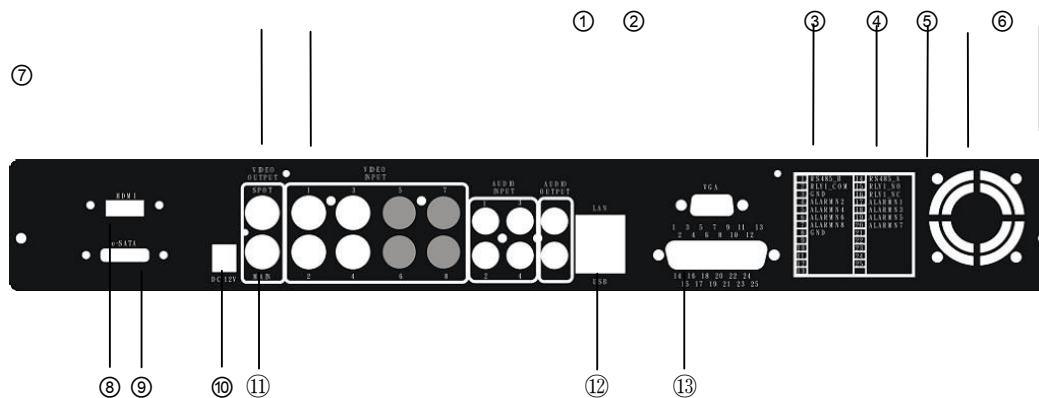


① SPOT monitor	BNC port to display full screen image of all installed cameras in sequence. (depends on model)
② VIDEO IN	BNC input ports for cameras, 8 in total.
③ AUDIO IN	RCA input port for audio signal. There are 4 ports available. (corresponding to channel 1 to 4)
④ AUDIO OUT	RCA output port for audio signal.
⑤ LAN	Network port
⑥ VGA	VGA port
⑦ Fan	DC 12V 40mm X 40mm fan
⑧ HDMI	HDMI port
⑨ e-SATA	External SATA hard disks port for expanding recording space
⑩ DC 12V	Socket for a DC 12V input.
⑪ MAIN monitor	BNC port for the main monitor. You can switch to SPOT monitor by GUI setting.
⑫ USB	USB port(Device USB Mouse)
⑬ EXTERNAL I/O	EXTERNAL I/O port (see below for pin definition)



1.	RS485_B	14.	RS485_A
2.	RLY1_COM	15.	RLY1_NO
3.	GND	16.	RLY1_NC
4.	ALARMN2	17.	ALARMN1
5.	ALARMN4	18.	ALARMN3
6.	ALARMN6	19.	ALARMN5
7.	ALARMN8	20.	ALARMN7
8.	GND	21.	
9.		22.	
10.		23.	
11.		24.	
12.		25.	
13.			

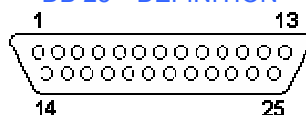
4CH REAR PANEL CONNECTORS



① SPOT monitor	BNC port to display full screen image of all installed cameras in sequence. (depends on model)
② VIDEO IN	BNC input ports for cameras, 4 in total.
③ AUDIO IN	RCA input port for audio signal. There are 4 ports available. (corresponding to channel 1 to 4)
④ AUDIO OUT	RCA output port for audio signal.
⑤ LAN	Network port
⑥ VGA	VGA port
⑦ Fan	DC 12V 40mm X 40mm fan
⑧ HDMI	HDMI port
⑨ e-SATA	External SATA hard disks2 port for expanding recording space
⑩ DC 12V	Socket for a DC 12V input.
⑪ MAIN monitor	BNC port for the main monitor. You can switch to SPOT monitor by GUI setting.

⑫ USB	USB port(Device USB Mouse)
⑬ EXTERNAL I/O	EXTERNAL I/O port (see below for pin definition)

DB 25 DEFINITION



1.	RS485_B	14.	RS485_A
2.	RLY1_COM	15.	RLY1_NO
3.	GND	16.	RLY1_NC
4.	ALARMN2	17.	ALARMN1
5.	ALARMN4	18.	ALARMN3
6.	ALARMN6	19.	ALARMN5
7.	ALARMN8	20.	ALARMN7
8.	GND	21.	
9.		22.	
10.		23.	
11.		24.	
12.		25.	
13.			

6 LIVE OPERATIONS

You can monitor all the channels, listen to audio signal and have some related operations under *LIVE* mode. This paragraph describes the IR remote control, mouse operation and on screen graphical icons under LIVE mode.

Table 6-1.1 Functions of remote control under LIVE mode

Button	Description
REC	Start/Stop recording.
PLAY	Start playing back the most recently recorded segment.
ENTER/MODE	Switch to full screen or multi split display.
MENU/ II	Enable/ Disable setup Menu.
BK-UP	Enable/ Disable backup menu.
ESC	Return last menu.

Table 6-1.2 Graphical icons that will display after right-clicking your mouse under LIVE mode.





























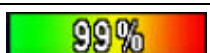






Icon	Description
	Resting the cursor on this icon will bring up the following four menu icons.
	Main menu.
	Search menu.
	Backup menu.
	PTZ mode.
	Turn on/off recording.
	Playback.
	Resting the cursor on this icon will bring up the following five display icons.
	FREEZE.
	ZOOM, double the screen size
	AUTO-sequence
	LOCK, activate the key lock.
	Full screen display.
	Quad display.
	9 display
	16-channel display

Table 6-1.3 Description of on screen graphical icons in LIVE mode

Icon	Description
	Recording is on
	Schedule Recording is on
	Live Audio is on
	Live Audio is off
	Motion detected on the channel
	Video loss detected on the channel
	USB device detected
	Connected to the LAN cable.
	AUTO-seq is on
	Freeze is on, screen is frozen
	LOCK is on
	PTZ control is on
	Shows the current hard disk space has been used (99% mean used 99%, remain 1%)
	Lower right of each CH will show the current time

Icon	Description
	Image quality (High/Low)
	Full screen
	Record
	Record and snap shot file saving path setup
	Enable / Disable Shortcut Toolbar

7

PLAYBACK OPERATIONS













Switch to PLAYBACK mode by pressing “PLAY” under the LIVE mode, the graphical icon  will show up on the upper center of the screen and the operation panel (see below picture) will show up at right lower corner of the screen. You can drag the panel by mouse to place it on any location of your screen.

Table 7-1.1 Remote control functions under the PLAYBACK mode

Button	Description
ENTER / MODE	Switch to full screen, quad
MENU / II	Turn on/off PAUSE.
PLAY	Play back at normal speed.
▲ / SLOW	Play back at slower speed. The speed will be slowed to 1/2, 1/4, 1/8, by each pressing of the button till the slowest limitation of the normal speed.
◀◀ / ◀	Fast rewind. Each press increases the speed to the next level. There are six speeds: 2x, 4X, 8X, 16x, 32X and 64X.
▶▶ / ▶	Fast forward. Each press increases the speed to the next level. There are six speeds: 2x, 4X, 8X, 16x, 32X and 64X.
▼ / ■	Stop playback.

Table 7-1.2 The mouse operation under the PLAYBACK mode.

Icon	Description
	「◀◀ / ◀」 Fast rewind
	「▶▶ / ▶」 Fast forward
	Play/pause
	「▲ / SLOW」, slow playback
	「▼ / ■」 stop playback
	Playback channel by channel with snap shot display
	Full screen display
	Quad display
	9 screen display
	16-channel display
	Zoom-in display

If you want to monitor single channel, please choose a channel and click left butt on of mouse two times.

8

PTZ OPERATIONS

Switch to the PTZ mode by pressing “PTZ” button under the LIVE mode. The PTZ icon will appear on upper left side of screen and the control panel will appear on the down right side of screen.



Table 8-1 Mouse operation under the PTZ mode

Icon	Description
	Leave PTZ Mode , back to the LIVE mode
	Pre-set number N. (0~255)
	Go to pre-set number N.
	Set current PTZ location at pre-set number N.
	「TOUR」, press to activate pre-set tour *
	「PIP」, Set current PTZ location as the start of line-scan. *
	「FREEZE」, Activate line-scan. *
	「ZOOM」, Set current PTZ location as the end of line-scan. *
	To move PTZ in 360°
	PTZ zoom in; PTZ zoom out
	PTZ focus in; PTZ focus out.
	PTZ IRIS open, PTZ IRIS close.
Below functions need support from specific PTZ manufacturer. Please check user manual of your PTZ for more detail.	
	AUX 1~8, 「AUTO」 Key + Number key 「1~8」
	「Backup」, Customized function.

* PTZ communication protocols from different brands aren't compatible 100